### Monitoring Data Record

Project Title: U-2524AC (Greensboro Western Urban Loop) COE Action ID: 200321137
Stream Name: Long Branch (Site 2BA) DWQ Number: 030909
City, County and other Location Information: Greensboro Western Loop, Guilford Co.
(Remediation Plans Sta. 10+00 to 29+86)
Date Construction Completed: 2-29-08 Monitoring Year: (2) of 5
Ecoregion: 8 digit HUC unit 03030002
USGS Quad Name and Coordinates:
Rosgen Classification: Proposed reach is a E5 stream type
Length of Project: 1,986' Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green & J. Young Date: 7/27/09
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Road Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete
Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level  Monitoring Level 1 requires completion of Section 1, Section 2 and Section 3
<b>Permit States</b> : NCDOT shall perform the following components of Level I monitoring twice
each year for the 5 year monitoring period (summer and winter): Reference photos, plant
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If required to complete Level 3 monitoring <u>only</u> stop here; otherwise, complete section 2.

#### Section 2. <u>PLANT SURVIVAL</u> Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):
DWQ requested that the kudzu be treated on site.
Estimated causes, and proposed/required remedial action: Div. 7 Roadside has been requested to treat
the kudzu within the site and should complete this work during the summer of 2009.
ADDITIONAL COMMENTS: Long Branch streambank reforestation was completed on 2-29-08. The
planting consisted of black willow and silky dogwood live stakes and green ash, river birch, tulip poplar, and willow
oak bareroot seedlings. Other vegetation noted: lespedeza, mimosa, pokeberry, goldenrod, sycamore, kudzu.
cottonwood, pine, briars, red maple, sweetgum, and various grasses.
Township of the maple, on the gam, and third granden
If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

#### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The Long Branch stream relocation is stabile for the Year 2 Summer evaluation, except for, some minor bank scouring that still exist at the station numbers noted below. NCDOT will continue to monitor this stream relocation.

7/27/09	Sta. 11+50 PP#1 Downstream Photo	Sta. 17+50 Additional Photo	Sta. 20+00 PP#5 Downstream Photo	Sta. 23+00 Additional Photo	Sta. 27+00 PP#9 Upstream and Downstream Photo
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?	Minor bank scouring on left bank downstream of boulder protection	Minor bank scouring on right bank	Minor bank scouring on left bank	Minor bank scouring on left bank downstream of boulder protection	Minor bank scouring on right and left bank



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

Year 2 Summer – July 2009



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)



Photo Point #8 (Downstream)



Photo Point #9 (Upstream)



Photo Point #9 (Downstream)



Photo Point #10 (Upstream)



Photo Point #10 (Downstream)



Bank Scouring @ Sta. 17+50



Bank Scouring @ Sta. 23+00 on Left Bank

Year 2 Summer – July 2009



